

About the mobile resizing:

If the Facebook site served multiple images of different sizes for each flag, we could do this differently. I'm going to relax the mobile requirements for task 2: just do something simple like the `<style>` thing below.

One way to size the flag is to let the servlet detect the device type; code for that is in `InterestingPicture`. Then you can use that to resize the image and see what works best, but it won't be adjusted per-phone, it will be one size fits all phones (we hope), and another size fits all desktops. Based on the device type, the servlet uses `setAttribute()` for width and height. For example, I tried 480x360 width x height for desktop and 200 x 150 for phone; seemed to work okay. Then the `result.jsp` can query those attributes and use them in the `` tag: after the flag url, just do `width= (your value) height= (your other value)`.

Another way is to limit the width and use a style tag in the jsp to modify it:

```
<img src= "<... your code here ...>" style="max-width:480px">
<style>
img{
    max-width:90%;
    height: auto;
}
</style>
```

You can also access `screen.width` and `screen.height` inside a `<script>` tag (that is, javascript). I tried to do some arithmetic on these values but couldn't seem to access them outside the scope of the `<script>`. Surely there's a way to do that.

Finally, every flag has an aspect ratio (the fraction width/height). Most, but not all, countries use a 3:2 aspect ratio. The gif files seem to respect the actual country's aspect ratio. So when resizing, you'd want to be careful about obeying the aspect ratio. The `<style>` tag above does that.

If you have some smarter way to handle all this, let me know!